## INTERNATIONALSEARCHREPORT

International application No. PCT/JP03/ 14347

A. CLASSIFICATIONOFSUBJECTMATTER Int.Cl <sup>7</sup> C23C10/28, F28F21/08					
According to	o International Patent Classification (IPC) or to both n	ational classification and IPC			
B. FIEL	DS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) Int.Cl <sup>7</sup> C23C10/28, F28F21/08,C22C21/00					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004					
Electronic da	ata base consulted during the international search (name of	of data base and, where practicable, search ten	ms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a		Relevant to claim No.		
Y	JP 53-23548 B2 (SUMITOMOKE)	KINZOKU K.K.)	1-17		
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Y	FUSYOKUBOSYOKUKYOKAI, FUSYO MARUZEN, 2000.02.29, page325		1-17		
Y	KAWAKATSU Ichiro,ROSETSUKO 1972.06.30,page172	OGAKU, ASAKURASYOTEN,	6,12		
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	& JP 61-186164 A				
Further documents are listed in the continuation of Box C.  See patent family annex.					
* Special categories of cited documents:  "T" later document published after the international filing date priority date and not in conflict with the application but cited understand the principle or theory underlying the invention			ne application but cited to		
"E" carlier nationa	application or patent but published on or after the inter- l filing date	"X" document of particular relevance; the be considered novel or cannot be c	claimed invention cannot onsidered to involve an		
is cited to establish the publication date of another citation or other "Y" document of particular relevance; the special reason (as specified)			claimed invention cannot		
means	ent referring to an oral disclosure, use, exhibition or other	combination being obvious to a person	such documents, such		
"P" document published prior to the international filing date but later "&" document member of the same patent family					
Date of the a	Date of the actual completion of the international search  18.02.2004  Date of mailing of the international search report  02. 3. 2004				
Name and mailing address of the ISA/JP  Authorized officer  4E			4E 3032		
Japan Patent Office		HIBINO TAKAHARU	3032		
3-4-3, Kası	umigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 Ex	t. 3425		

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C (Continuat	ion). DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	JP 2-55664 A(FURUKAWAARUMINIUMUKOGYO K.K.) 1-17 1990.02.26(Family:none)		
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